

Serial Number: 101004,827CRF Processing Date: 12/12/01
Edited by: DC
Verified by: DC (STIC sta

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically:

ENTERED

- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other _____
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically: _____

- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: _____

- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: _____

- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.

- ☐ Inserted colons after headings/subheadings. Headings edited included: _____

- ☐ Deleted extra, invalid, headings used by an applicant, specifically: _____

- ☒ Deleted: ☒ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file;
☐ page numbers throughout text; ☐ other invalid text, such as _____

- ☐ Inserted mandatory headings, specifically: _____

- ☐ Corrected an obvious error in the response, specifically: _____

- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.

- ☐ Corrected an error in the Number of Sequences field, specifically: _____

- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.

- ☐ Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____

- ☒ Other: - inserted "hard return" where there were "run-on" entries
for a sequence (at line 615)

*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/004,827

DATE: 12/18/2001

TIME: 15:24:14

Input Set : A:\PTO.DC.txt

Output Set: N:\CRF3\12182001\J004827.raw

3 <110> APPLICANT: Jander, Georg
4 Baerson, Scott R
5 Durrett, Timothy P
7 <120> TITLE OF INVENTION: Plants with Imidazolinone-Resistant ALS
9 <130> FILE REFERENCE: 38-10(15820)B
C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/004,827
C--> 11 <141> CURRENT FILING DATE: 2001-12-07
11 <150> PRIOR APPLICATION NUMBER: US 60/257,480
12 <151> PRIOR FILING DATE: 2000-12-21
14 <160> NUMBER OF SEQ ID NOS: 38
16 <170> SOFTWARE: PatentIn version 3.1
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19 <211> LENGTH: 2013
20 <212> TYPE: DNA
21 <213> ORGANISM: Arabidopsis thaliana ecotype Columbia
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28 aacccccaaaca aatcatcctc ctctcccgcg cgccgcggta tcaaattccag ctctccctcc 180
30 tccatctccg ccgtgctcaa cacaaccacc aatgtcacia ccaactccctc tccaacaaaa 240
32 cctacaaaac ccgaaacatt catctcccga ttcgctccag atcaaccccg caaaggcgct 300
34 gatatacctcg tcgaagcttt agaagctcaa ggcgtagaaa ccgtattcgc ttaccctgga 360
36 ggtacatcaa tggagattca ccaagcctta acccgctctt cctcaatccg taacgctcct 420
38 cctcgctcag aacaaggagg tgtattcgca gcagaaggat acgctcgatc ctcaggtaaa 480
40 ccaggatatct gtatagccac ttcagggtccc ggagctacaa atctcgttag cggattagcc 540
42 gatgcgttgt tagatagtgt tcctcttgta gcaatcacag gacaagtccc tcgctcgtag 600
44 attggtacag atgcgtttca agagactccg attgttgagg taacgcgttc gattacgaag 660
46 cataactatc ttgtgatgga tgttgaagat atccctagga ttattgagga agctttcttt 720
48 ttagctactt ctggtagacc tggacctgtt ttggttgatg ttcttaaaga tattcaacaa 780
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64 attgggaaga ataagactcc tcatgtgtct gtgtgtggtg atgttaagct ggctttgcaa 1260
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84 atgttgctgt ttgcagcagc ttgcgggatt ccagcggcga gggtagacaaa gaaagcagat 1860

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/004,827

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Input Set : A:\PTO.DC.txt

Output Set: N:\CRF3\12182001\J004827.raw

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94 <211> LENGTH: 2013
95 <212> TYPE: DNA
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103 aacccaaca aatcatcctc ctctcccgcc cgccgaggta tcaaattccag ctctccctcc 180
105 tccatctccg cgtgtctcaa cacaaccacc aatgtcacia ccactccctc tccaacaaaa 240
107 cctaccaaac ccgaacatt catctccga ttcgctccag atcaaccccg caaaggcgct 300
109 gatatcctcg tcgaagcttt agaacgtcaa ggcgtagaaa ccgtattcgc ttaccctgga 360
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113 cctcgtcacg aacaaggagg tgtattcgca gcagaaggat acgctcgatc ctcaggtaaa 480
115 ccaggatatc gtatagccac ttcaggctcc ggagctacaa atctcgttag cggattagcc 540
117 gatgcgttgt tagatagtgt tctcttgtga gcaatcacag gacaagtccc tcgtcgtagt 600
119 attggtacag atgtgtttca agagactccg attgttgagg taacgcgttc gattacgaag 660
121 cataactatc ttgtgatgga tgttgaagat atccctagga ttattgagga agctttcttt 720
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161 ctccgagaag ctattcagac aatgctggat acaccaggac cttacctgtt ggatgtgatt 1920
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169 <211> LENGTH: 670
170 <212> TYPE: PRT
171 <213> ORGANISM: Arabidopsis thaliana ecotype Columbia
173 <400> SEQUENCE: 3
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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/004,827

DATE: 12/18/2001

TIME: 15:24:14

Input Set : A:\PTO.DC.txt

Output Set: N:\CRF3\12182001\J004827.raw

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181 Arg Phe Ser Leu Pro Phe Ser Leu Asn Pro Asn Lys Ser Ser Ser Ser
182          35          40          45
184 Ser Arg Arg Arg Gly Ile Lys Ser Ser Ser Pro Ser Ser Ile Ser Ala
185          50          55          60
187 Val Leu Asn Thr Thr Thr Asn Val Thr Thr Thr Pro Ser Pro Thr Lys
188 65          70          75          80
190 Pro Thr Lys Pro Glu Thr Phe Ile Ser Arg Phe Ala Pro Asp Gln Pro
191          85          90          95
193 Arg Lys Gly Ala Asp Ile Leu Val Glu Ala Leu Glu Arg Gln Gly Val
194          100          105          110
196 Glu Thr Val Phe Ala Tyr Pro Gly Gly Thr Ser Met Glu Ile His Gln
197          115          120          125
199 Ala Leu Thr Arg Ser Ser Ser Ile Arg Asn Val Leu Pro Arg His Glu
200          130          135          140
202 Gln Gly Gly Val Phe Ala Ala Glu Gly Tyr Ala Arg Ser Ser Gly Lys
203 145          150          155          160
205 Pro Gly Ile Cys Ile Ala Thr Ser Gly Pro Gly Ala Thr Asn Leu Val
206          165          170          175
208 Ser Gly Leu Ala Asp Ala Leu Leu Asp Ser Val Pro Leu Val Ala Ile
209          180          185          190
211 Thr Gly Gln Val Pro Arg Arg Met Ile Gly Thr Asp Ala Phe Gln Glu
212          195          200          205
214 Thr Pro Ile Val Glu Val Thr Arg Ser Ile Thr Lys His Asn Tyr Leu
215          210          215          220
217 Val Met Asp Val Glu Asp Ile Pro Arg Ile Ile Glu Glu Ala Phe Phe
218 225          230          235          240
220 Leu Ala Thr Ser Gly Arg Pro Gly Pro Val Leu Val Asp Val Pro Lys
221          245          250          255
223 Asp Ile Gln Gln Gln Leu Ala Ile Pro Asn Trp Glu Gln Ala Met Arg
224          260          265          270
226 Leu Pro Gly Tyr Met Ser Arg Met Pro Lys Pro Pro Glu Asp Ser His
227          275          280          285
229 Leu Glu Gln Ile Val Arg Leu Ile Ser Glu Ser Lys Lys Pro Val Leu
230          290          295          300
232 Tyr Val Gly Gly Gly Cys Leu Asn Ser Ser Asp Glu Leu Gly Arg Phe
233 305          310          315          320
235 Val Glu Leu Thr Gly Ile Pro Val Ala Ser Thr Leu Met Gly Leu Gly
236          325          330          335
238 Ser Tyr Pro Cys Asp Asp Glu Leu Ser Leu His Met Leu Gly Met His
239          340          345          350
241 Gly Thr Val Tyr Ala Asn Tyr Ala Val Glu His Ser Asp Leu Leu Leu
242          355          360          365
244 Ala Phe Gly Val Arg Phe Asp Asp Arg Val Thr Gly Lys Leu Glu Ala
245          370          375          380
247 Phe Ala Ser Arg Ala Lys Ile Val His Ile Asp Ile Asp Ser Ala Glu
248 385          390          395          400
250 Ile Gly Lys Asn Lys Thr Pro His Val Ser Val Cys Gly Asp Val Lys

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/004,827

DATE: 12/18/2001

TIME: 15:24:14

Input Set : A:\PTO.DC.txt

Output Set: N:\CRF3\12182001\J004827.raw

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257          435          440          445
259 Gln Lys Phe Pro Leu Ser Phe Lys Thr Phe Gly Glu Ala Ile Pro Pro
260          450          455          460
262 Gln Tyr Ala Ile Lys Val Leu Asp Glu Leu Thr Asp Gly Lys Ala Ile
263 465          470          475          480
265 Ile Ser Thr Gly Val Gly Gln His Gln Met Trp Ala Ala Gln Phe Tyr
266          485          490          495
268 Asn Tyr Lys Lys Pro Arg Gln Trp Leu Ser Ser Gly Gly Leu Gly Ala
269          500          505          510
271 Met Gly Phe Gly Leu Pro Ala Ala Ile Gly Ala Ser Val Ala Asn Pro
272          515          520          525
274 Asp Ala Ile Val Val Asp Ile Asp Gly Asp Gly Ser Phe Ile Met Asn
275          530          535          540
277 Val Gln Glu Leu Ala Thr Ile Arg Val Glu Asn Leu Pro Val Lys Val
278 545          550          555          560
280 Leu Leu Leu Asn Asn Gln His Leu Gly Met Val Met Gln Trp Glu Asp
281          565          570          575
283 Arg Phe Tyr Lys Ala Asn Arg Ala His Thr Phe Leu Gly Asp Pro Ala
284          580          585          590
286 Gln Glu Asp Glu Ile Phe Pro Asn Met Leu Leu Phe Ala Ala Ala Cys
287          595          600          605
289 Gly Ile Pro Ala Ala Arg Val Thr Lys Lys Ala Asp Leu Arg Glu Ala
290          610          615          620
292 Ile Gln Thr Met Leu Asp Thr Pro Gly Pro Tyr Leu Leu Asp Val Ile
293 625          630          635          640
295 Cys Pro His Gln Glu His Val Leu Pro Met Ile Pro Ser Gly Gly Thr
296          645          650          655
298 Phe Asn Asp Val Ile Thr Glu Gly Asp Gly Arg Ile Lys Tyr
299          660          665          670
301 <210> SEQ ID NO: 4
302 <211> LENGTH: 670
303 <212> TYPE: PRT
304 <213> ORGANISM: Arabidopsis thaliana ecotype Columbia
306 <400> SEQUENCE: 4
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312          20          25          30
314 Arg Phe Ser Leu Pro Phe Ser Leu Asn Pro Asn Lys Ser Ser Ser Ser
315          35          40          45
317 Ser Arg Arg Arg Gly Ile Lys Ser Ser Ser Pro Ser Ser Ile Ser Ala
318          50          55          60
320 Val Leu Asn Thr Thr Thr Asn Val Thr Thr Thr Pro Ser Pro Thr Lys
321 65          70          75          80
323 Pro Thr Lys Pro Glu Thr Phe Ile Ser Arg Phe Ala Pro Asp Gln Pro

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/004,827

DATE: 12/18/2001

TIME: 15:24:14

Input Set : A:\PTO.DC.txt

Output Set: N:\CRF3\12182001\J004827.raw

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326 Arg Lys Gly Ala Asp Ile Leu Val Glu Ala Leu Glu Arg Gln Gly Val
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329 Glu Thr Val Phe Ala Tyr Pro Gly Gly Ala Ser Met Glu Ile His Gln
330          115          120          125
332 Ala Leu Thr Arg Ser Ser Ser Ile Arg Asn Val Leu Pro Arg His Glu
333          130          135          140
335 Gln Gly Gly Val Phe Ala Ala Glu Gly Tyr Ala Arg Ser Ser Gly Lys
336 145          150          155          160
338 Pro Gly Ile Cys Ile Ala Thr Ser Gly Pro Gly Ala Thr Asn Leu Val
339          165          170          175
341 Ser Gly Leu Ala Asp Ala Leu Leu Asp Ser Val Pro Leu Val Ala Ile
342          180          185          190
344 Thr Gly Gln Val Pro Arg Arg Met Ile Gly Thr Asp Val Phe Gln Glu
345          195          200          205
347 Thr Pro Ile Val Glu Val Thr Arg Ser Ile Thr Lys His Asn Tyr Leu
348          210          215          220
350 Val Met Asp Val Glu Asp Ile Pro Arg Ile Ile Glu Glu Ala Phe Phe
351 225          230          235          240
353 Leu Ala Thr Ser Gly Arg Pro Gly Pro Val Leu Val Asp Val Pro Lys
354          245          250          255
356 Asp Ile Gln Gln Gln Leu Ala Ile Pro Asn Trp Glu Gln Ala Met Arg
357          260          265          270
359 Leu Pro Gly Tyr Met Ser Arg Met Pro Lys Pro Pro Glu Asp Ser His
360          275          280          285
362 Leu Glu Gln Ile Val Arg Leu Ile Ser Glu Ser Lys Lys Pro Val Leu
363          290          295          300
365 Tyr Val Gly Gly Gly Cys Leu Asn Ser Ser Asp Glu Leu Gly Arg Phe
366 305          310          315          320
368 Val Glu Leu Thr Gly Ile Pro Val Ala Ser Thr Leu Met Gly Leu Gly
369          325          330          335
371 Ser Tyr Pro Cys Asp Asp Glu Leu Ser Leu His Met Leu Gly Met His
372          340          345          350
374 Gly Thr Val Tyr Ala Asn Tyr Ala Val Glu His Ser Asp Leu Leu Leu
375          355          360          365
377 Ala Phe Gly Val Arg Phe Asp Asp Arg Val Thr Gly Lys Leu Glu Ala
378          370          375          380
380 Phe Ala Ser Arg Ala Lys Ile Val His Ile Asp Ile Asp Ser Ala Glu
381 385          390          395          400
383 Ile Gly Lys Asn Lys Thr Pro His Val Ser Val Cys Gly Asp Val Lys
384          405          410          415
386 Leu Ala Leu Gln Gly Met Asn Lys Val Leu Glu Asn Arg Ala Glu Glu
387          420          425          430
389 Leu Lys Leu Asp Phe Gly Val Trp Arg Asn Glu Leu Asn Val Gln Lys
390          435          440          445
392 Gln Lys Phe Pro Leu Ser Phe Lys Thr Phe Gly Glu Ala Ile Pro Pro
393          450          455          460
395 Gln Tyr Ala Ile Lys Val Leu Asp Glu Leu Thr Asp Gly Lys Ala Ile
396 465          470          475          480

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VERIFICATION SUMMARY

PATENT APPLICATION: US/10/004,827

DATE: 12/18/2001

TIME: 15:24:15

Input Set : A:\PTO.DC.txt

Output Set: N:\CRF3\12182001\J004827.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application No
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:618 M:283 W: Missing Blank Line separator, <400> field identifier

OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/004,827

DATE: 12/12/2001

TIME: 14:27:48

Input Set : A:\38-10(15820)B CRF.txt

Output Set: N:\CRF3\12112001\I004827.raw

**Does Not Comply
Corrected Diskette Needed**

3 <110> APPLICANT: Jander, Georg
 4 Baerson, Scott R
 5 Durrett, Timothy P
 7 <120> TITLE OF INVENTION: Plants with Imidazolinone-Resistant ALS
 9 <130> FILE REFERENCE: 38-10(15820)B
 C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/004,827
 C--> 11 <141> CURRENT FILING DATE: 2001-12-07
 11 <150> PRIOR APPLICATION NUMBER: US 60/257,480
 12 <151> PRIOR FILING DATE: 2000-12-21
 14 <160> NUMBER OF SEQ ID NOS: 38
 16 <170> SOFTWARE: PatentIn version 3.1

ERRORED SEQUENCES

983 <210> SEQ ID NO: 38
 984 <211> LENGTH: 31
 985 <212> TYPE: PRT
 986 <213> ORGANISM: Zea mays
 988 <400> SEQUENCE: 38
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 991 1 5 10 15
 994 Phe Gln Glu Thr Pro Ile Val Glu Val Thr Arg Ser Ile Thr Lys
 995 20 25 30
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VERIFICATION SUMMARY

PATENT APPLICATION: US/10/004,827

DATE: 12/12/2001

TIME: 14:27:49

Input Set : A:\38-10(15820)B CRF.txt

Output Set: N:\CRF3\12112001\I004827.raw

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L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:615 M:282 W: Numeric Field Identifier Missing, <211> is required.
L:615 M:282 W: Numeric Field Identifier Missing, <212> is required.
L:615 M:282 W: Numeric Field Identifier Missing, <213> is required.
L:615 M:283 W: Missing Blank Line separator, <400> field identifier
L:1001 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:38